eceoh electrical and computer engineering open house

March 6 and 7, 1987

Departmental Program

eceoh electrical and computer engineering open house

Welcome to ECEOH! Take some time and see how electrical and computer engineering provide the tools essential to shaping our world.

At ECEOH, we hope to show you what makes the University of Illinois one of the best electrical and computer engineering schools in the country. Find out what our own students are learning and what engineering is all about, but most importantly, have fun!

Our exhibits are located in the basement and first and second floors of the electrical engineering building. This booklet contains a short description of the projects, and also a map of the room locations.

We also have a central exhibit in Loomis Laboratory, explaining the world-class work being performed on supercomputers here at U of I.

Project Locations

Basement
Eta Kappa Nu
Room
59

The electrical and computer engineering honor society will be exhibiting a collection of models and experiments dealing with the uses of magnetic forces in today's and tomorrow's society, including a levitated train and a rail gun.

First Floor
Room

IEEE
151

The Institute of Electrical and Electronics Engineers will be presenting the technology that has revolutionized the music industry–digital audio.

Zenith
161

Take a look at the latest consumer products, presented by Zenith in conjunction with electrical and computer engineering students. They will be demonstrating a Hero 2000 robot, several microcomputers, a camcorder, and more.

Tau Beta Pi
163

The engineering honor society will be exhibiting a computer-controlled robotic guitar player.

Electrical &Computer Engineering Dept.
165

Find out what students do and what resources are available in the ECE department, check out our slide show presentation, showing every half hour.

Bioengineering Society Open House
168-170

This society will be displaying several exhibits, including an oversized keyboard for the movement impaired, a mechanized wheelchair lift device, a medical image processing system, and more.

Interdisciplinary Project
167

A joint project between the bioengineering society and the ECE department, demonstrating the use of computers in medical disease diagnosis.

Second Floor
Room

Wordlink
238

This company, with the help of ECE students, will be demonstrating the applications of a local area network (LAN), an advanced new way to interconnect computers for communication and processing.

AMSIE
241

The American Minority Students in Engineering will present "A Heritage in Science," a series of biographical displays and models depicting the accomplishments of minorities in engineering, as well as a computer quiz on AMSIE's goals and services.

Sigma Phi Delta
245

This engineering fraternity's exhibit will explain what Sigma Phi Delta is, and how all engineering students can benefit from a fraternity.

Electrical Engineering Projects
246

ECE student Joe Kreidler will demonstrate how the basic circuit elements operate in this introduction to electrical engineering.

Students Ik Sidhu and Mike Lohman will explain how infra-red technology is incorporated in their own remote control system.

Ik Sidhu will also demonstrate his wireless speaker system, also using infra-red technology to send signals across a room.

Holography
250

Student Don Barnhart will be showing his object recognition system, using a video camera, holograms, and a liquid-crystal TV.

Synton
251

The amateur radio society will present a special demonstration of amateur television, as well as a demonstration of regular ham radio equipment.

Technograph
254

Take a look at the Technograph, the student-run engineering magazine.

CERL Music Group
257

The Computer-based Education Research Laboratory will demonstrate its computer music system.

Triangle Fraternity
260

This engineering and science fraternity will be explaining the basic principles of electric motors, and giving away take-home kits for your own motor design.

Advanced Digital Systems Laboratory
268-270

There will be several projects featured in this laboratory, including a digital image processing system, a macro microprocessor, a "touring machine," a crop planting monitor, a speech synthesizer, a computer-controlled pneumatic leg, and a robot arm controlled by two microprocessors.

A MAP OF THE BUILDING

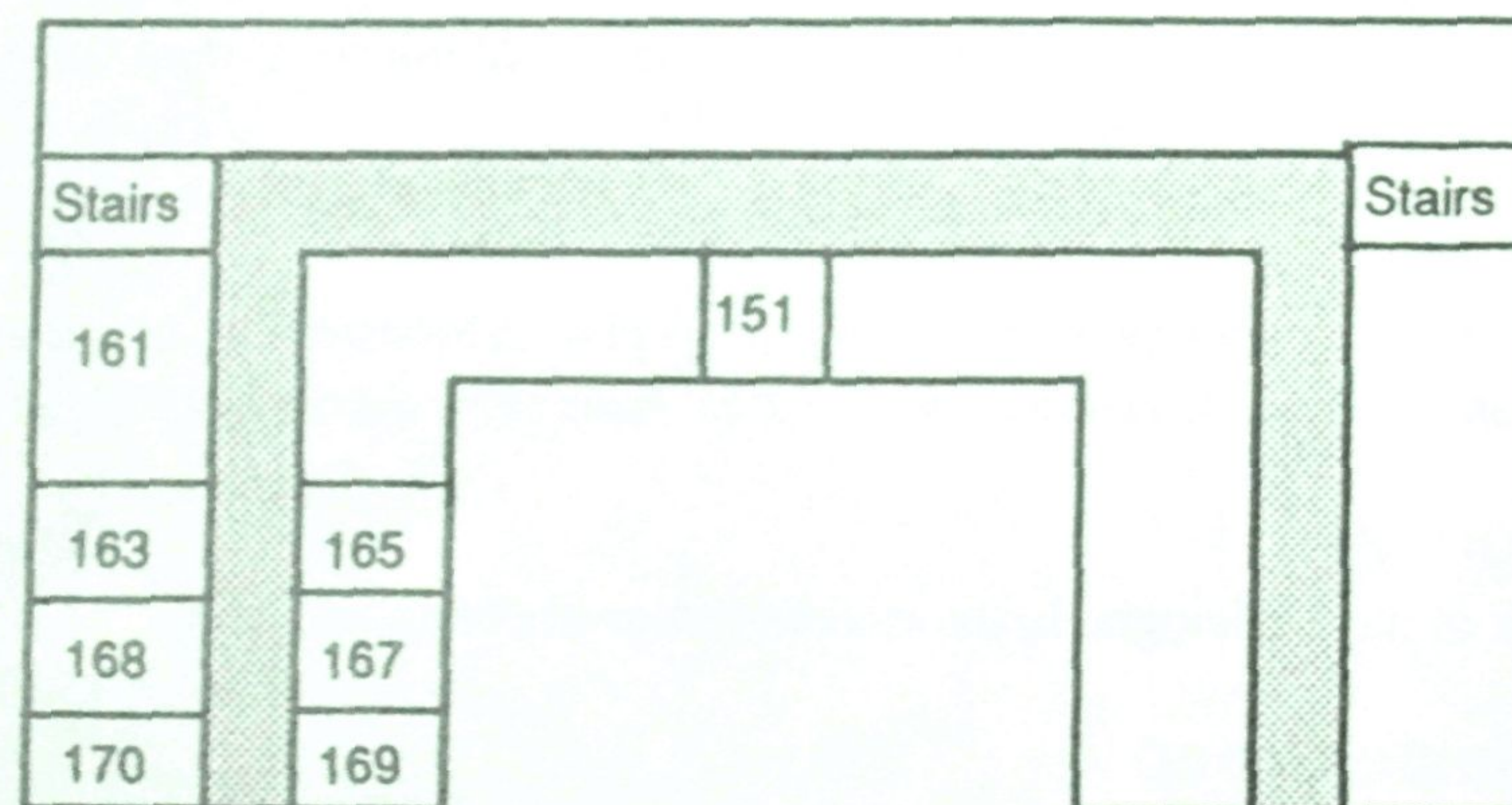## Second Floor

260	257	254	252	250		245		241
Stairs								Stairs
			251	246				238
268								
270	269							

First Floor

Stairs								Stairs
161			151					
163	165							
168	167							
170	169							

Basement

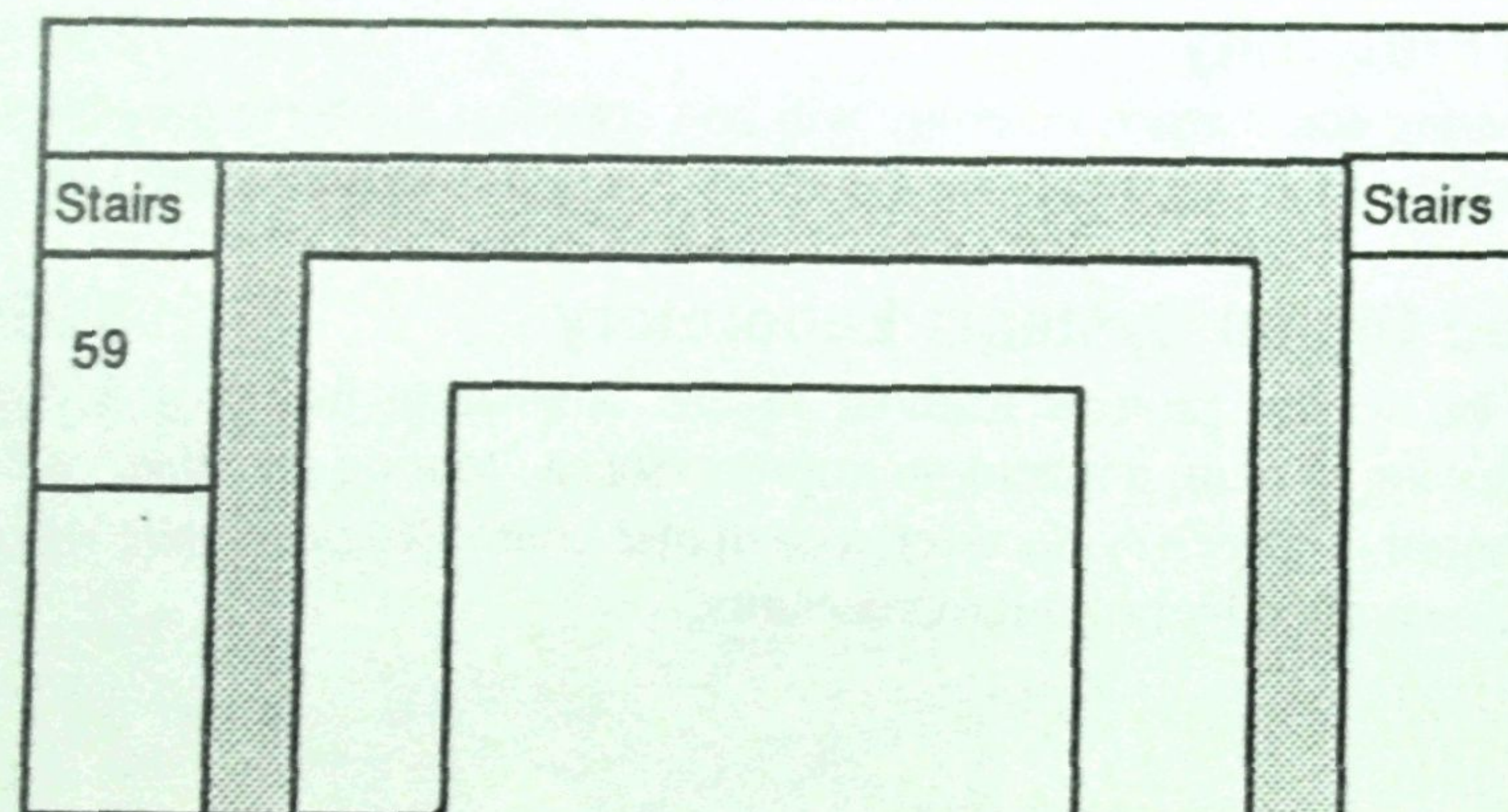| | | | | | | | | |
Stairs								Stairs
59								

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The Electrical and Computer Engineering Open House
committee would like to thank all who helped with the
organization and staging of this event.